

# PATENT ABSTRACTS OF JAPAN

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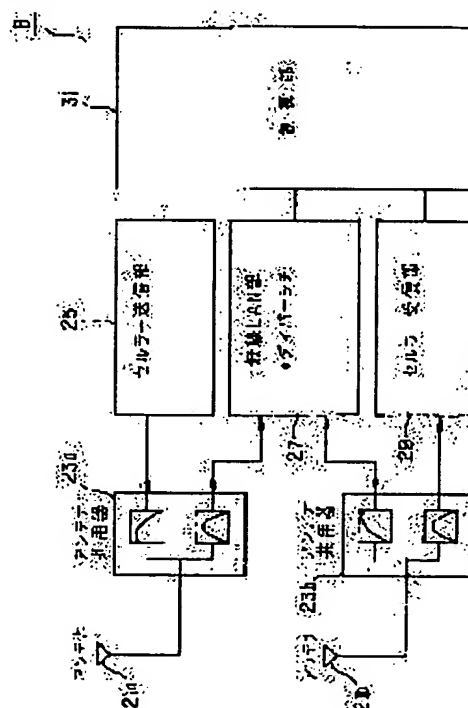
## (54) PLURAL BANDS COMMUNICATION EQUIPMENT SHARING ANTENNA

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To realize antenna sharing for saving power and improving performance on a dual band communication equipment where the cellular phone of mainly DMA-FDD system are set to be an access means and the wireless LAN of mainly SS-TDD system to be a home network means.

**SOLUTION:** The dual band antennas 21a and 21b of the frequency of the cellular phone and that of an SS wireless LAN are used. An antenna for CDMA cellular phone is separated by a transmission part 25 and a reception part 29. Since a wireless LAN part 27 performs diversity, it is connected to the antennas 21a and 21b via antenna sharing units 23a and 23b.

The roles of the antenna sharing units are not for antenna-sharing the transmission/reception of the cellular phone but for antenna-sharing the frequency band of the cellular phone and that of the wireless LAN.



## LEGAL STATUS

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